#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



### | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 1911 | 191

## (43) International Publication Date 22 February 2001 (22.02.2001)

#### **PCT**

English

# (10) International Publication Number WO 01/12156 A1

(51) International Patent Classification?: A61K 9/00

(21) International Application Number: PCT/US00/19549

(22) International Filing Date: 26 July 2000 (26.07.2000)

(25) Filing Language:

(26) Publication Language: English

(30) Priority Data: 60/148,508 12 August 1999 (12.08.1999) US

(71) Applicant (for all designated States except US): ELI LILLY AND COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KASSEBAUM, James, Web [US/US]; 9221 Leeward Court, Indianapolis, IN 46256 (US). PUGH, Paul, Thomas [US/US]; 8312 South Mill Road, Knightstown, IN 46148 (US). THOMPSON, William, Webster [US/US]; 5521 Overbrook Circle, Indianapolis, IN 46226 (US).

(74) Agents: DEMETER, John, C. et al.; Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285 (US).

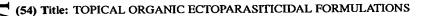
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: This invention provides topical ectoparasiticidal formulations comprising an ectoparasiticide, preferably a pyrethroid or a spinosyn, a spreading agent that is a  $(C_3-C_6)$  branched alkyl  $(C_{10}-C_{20})$  alkanoate, preferably isopropyl myristate, and optionally a miscibilizing agent compatible with organic solvent systems, and methods of controlling an ectoparasite infestation on certain animals comprising topically applying such formulations to the animal.